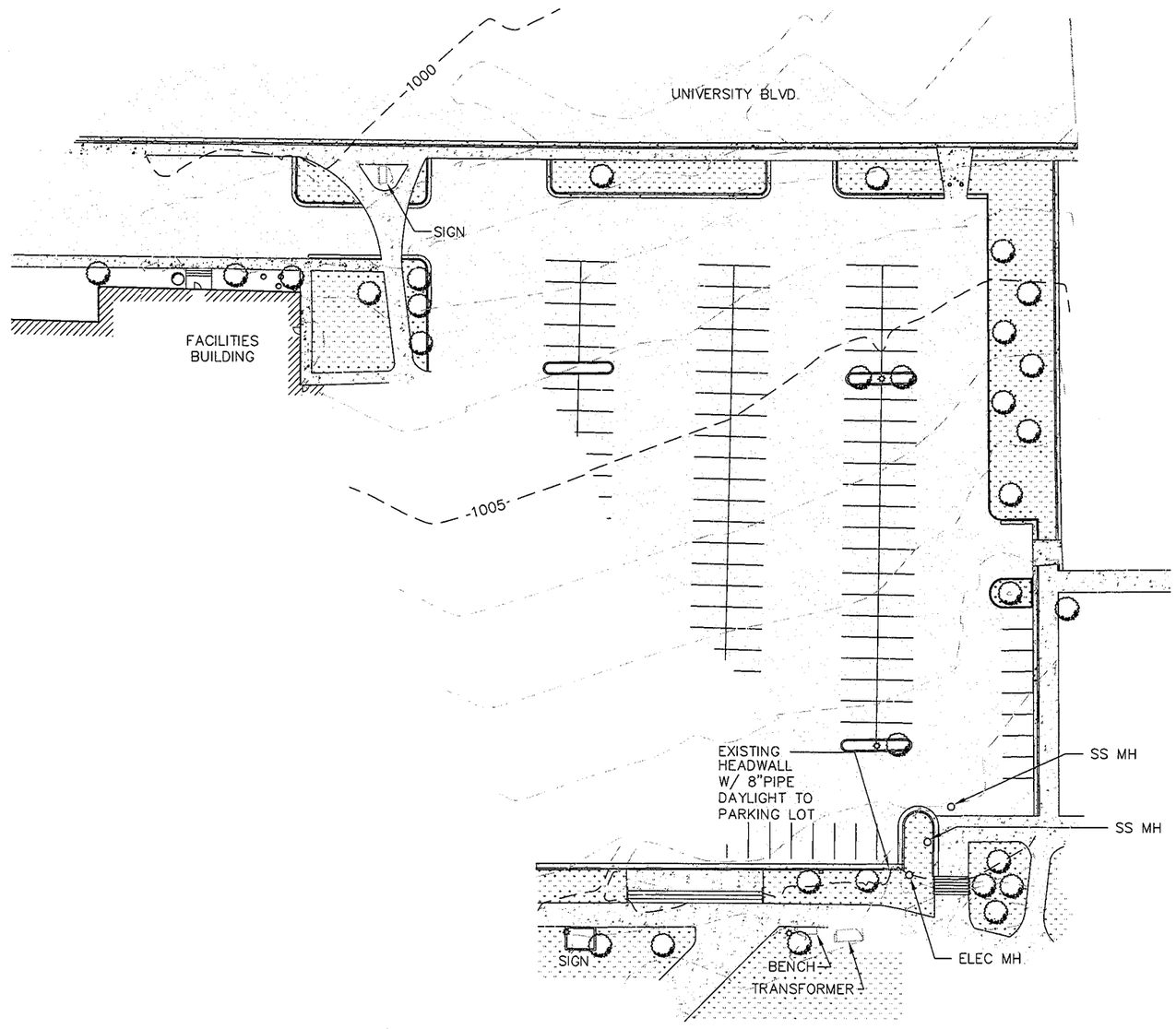
SOUTHERN UTAH UNIVERSITY
ADA SIDEWALK AND RAMP CONSTRUCTION



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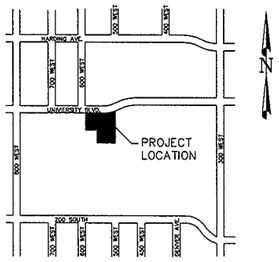
N.T.S.
(FOR REFERENCE PURPOSES ONLY)



VICNITIY MAP
N.T.S.

SHEET INDEX:

LICENSED PROFESSIONAL ENGINEER
#179190
JAMES C. DAHL, JR.
STATE OF UTAH

REV.	DESCRIPTION	DRAWN BY	CHECKED BY	APPROVED BY	DATE

DRAWN BY: JDB
CHECKED BY: JCD
APPROVED BY: JCD
SCI PROJECT#: 20680
ISSUE DATE: 11/01/17

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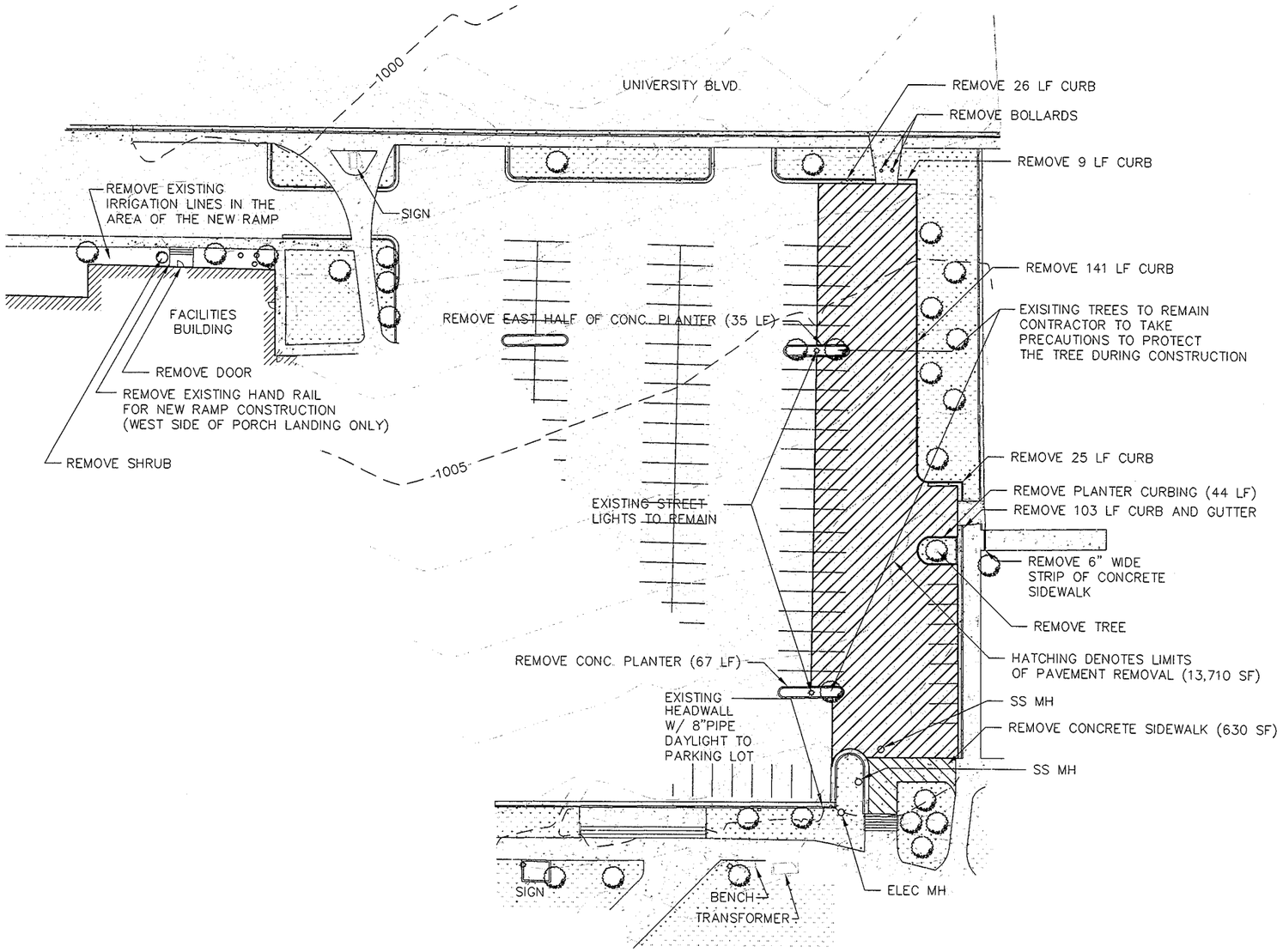
SOUTHERN UTAH UNIVERSITY
SUU STUDENT CENTER
TITLE SHEET
CEDAR CITY, IRON COUNTY, UTAH

SHEET
1



N

GRAPHIC SCALE

30 0 15 30 60

(IN FEET)
1 inch = 30 ft.

LEGEND

- EXISTING TREE
- EXSITING STREET LIGHT
- EXISTING BOLLARD
- EXISTING ASPHALT
- EXISTING CONRETE
- EXISTING LAWN
- EXISTING CONTOURS
- ASPHALT REMOVAL LIMIT
- CONCRETE REMOVAL LIMIT

DEMOLITION SUMMARY.

1. REMOVE ASPHALT 13,710 SQ. FT.
2. REMOVE CURB 345 LF
3. REMOVE BOLLARDS 2 EA
4. REMOVE SHRUBS 3 EA
5. REMOVE CONCRETE SIDEWALK 674 SQ. FT.
6. REMOVE HAND RAIL
7. REMOVE IRRIGATION
8. REMOVE DOOR
9. REMOVE TREE 1 EACH
10. REMOVE CURB AND GUTTER 103 LF

LICENSED PROFESSIONAL ENGINEER
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SUU STUDENT CENTER
DEMOLITION PLAN
CEDAR CITY, IRON COUNTY, UTAH

SHEET
2

Tangent curb cut assembly

1 UNTREATED BASE COURSE: Provide material specified in APWA Section 32 11 23
   A. Do not use gravel as a substitute for untreated base course without ENGINEER's permission.
   B. Place material per APWA Section 32 05 10.
   C. Compact per APWA Section 31 23 26 to a modified proctor density of 95 percent or greater. Maximum lift thickness before compaction is 8 inches when using riding compaction equipment or 6 inches when using hand held compaction equipment

2. CONCRETE: Class 4000 per APWA Section 03 30 04.
   A. If necessary, provide concrete that achieves design strength in less than 7 days. Caution, concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
   B. Place concrete per APWA Section 03 30 10.
   C. Provide 1/2 inch radius on concrete edges exposed to public view.
   D. Cure concrete per APWA Section 03 39 00 with type ID Class A or B (clear with fugitive dye) membrane forming compound unless specified otherwise.

3. EXPANSION JOINT: Make expansion joints vertical.
   A. Full depth 1/2 inch thick type F1 joint filler material per APWA Section 32 13 73 Set top of filler flush with surface of concrete.

4 CONTRACTION JOINT: Make contraction joints vertical.
   A. 1/8 inch wide and 1 inch deep or 1/4 slab thickness if slab is greater than 4 inches thick.
   B. Maximum length to width ratio for non-square panels is 1.5 to 1.
   C. Maximum panel length (in feet) is 2.5 times the slab thickness (in inches) to a maximum of 15 feet

5. FLARE: If a flare is in a pedestrian circulation area, the slope of the flare shall be 1:10 (10%) maximum measured perpendicular to the pedestrian access route

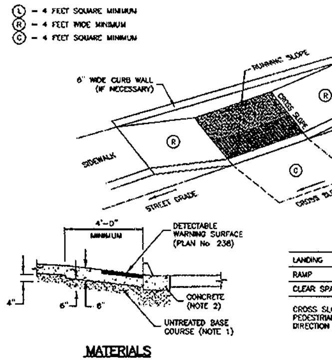
6. DETECTABLE WARNING SURFACE: A detectable warning surface is required in a ramp, transition, or landing that provides a flush connection to the street. Perpendicular and non-perpendicular connections are shown in APWA Plan No. 238

7. PROTECTION AND REPAIR:
   A. Protect concrete from deicing chemicals during cure.
   B. Fill flow line with water. Repair construction that doesn't drain.

LANDING AT STREET LEVEL

NARRATIVE:
- SITE CONDITIONS WILL VARY. CONFIGURATION OF RAMP AND LANDING MAY BE CHANGED, BUT THEY MUST MEET DIMENSIONS AND SLOPES SHOWN HERE.
- GRADE BREAKS MUST BE PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL.
- USE OF FLARES, CURB WALLS, ETC., ARE AT ENGINEER'S DISCRETION.
- LENGTH OF ANY RAMP NOT REQUIRED TO EXCEED 15 FEET

(L) – 4 FEET SQUARE MINIMUM
(R) – 4 FEET WIDE MINIMUM
(C) – 4 FEET SQUARE MINIMUM



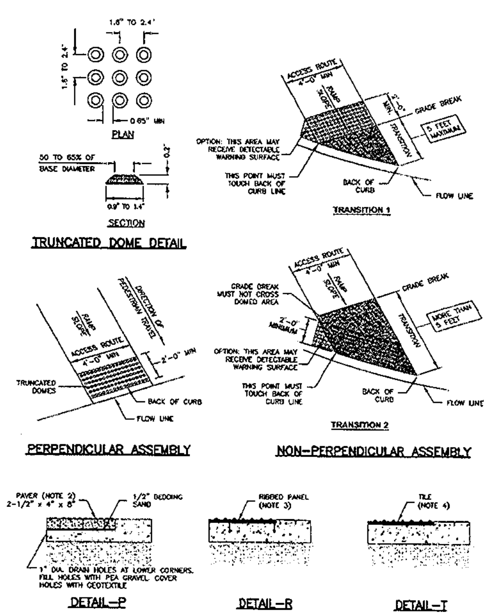
	RUNNING SLOPE	CROSS SLOPE
LANDING	STREET GRADE	1:48 (2%)
RAMP	1:12 (8.33%)	1:48 (2%)
CLEAR SPACE	1:20 (5%)	STREET GRADE

CROSS SLOPE IS PERPENDICULAR TO DIRECTION OF PEDESTRIAN TRAVEL. RUNNING SLOPE IS IN THE DIRECTION OF PEDESTRIAN TRAVEL.

MAXIMUM SLOPES

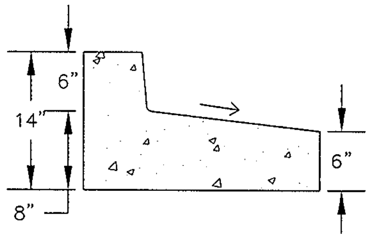
Tangent curb cut assembly Plan No. 236

(1) HANDICAP RAMP DETAIL PER APWA STANDARDS (PLAN NO. 236)

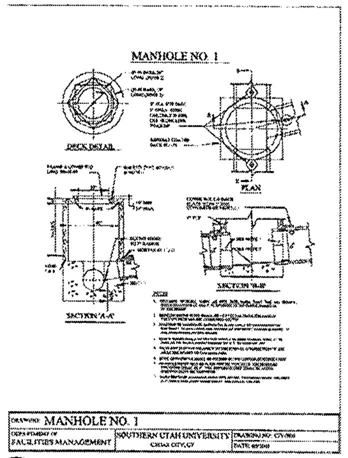


Detectable warning surface Plan No. 238

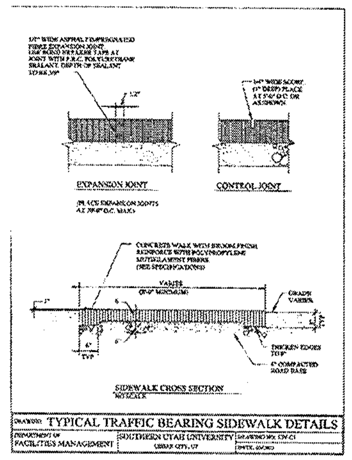
(2) HANDICAP DETECTABLE WEARING SURFACE PER APWA STANDARDS (PLAN NO. 238)



(3) CONCRETE CURB AND GUTTER DIMENSIONS
NTS



(4) STORM DRAIN MANHOLE
NTS



(A) SECTION A
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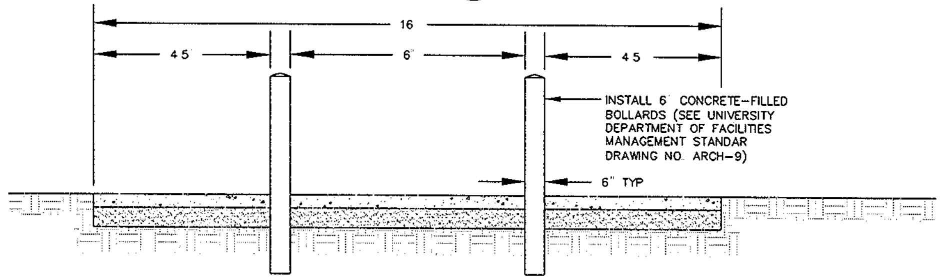
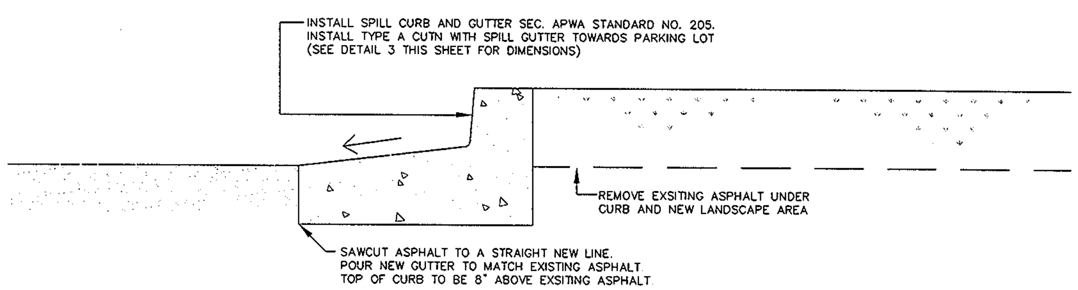


(B) SECTION B
NTS



(C) SECTION C
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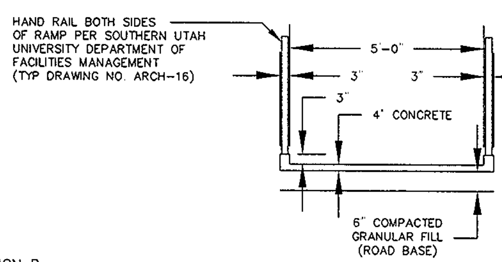

(D) SECTION D
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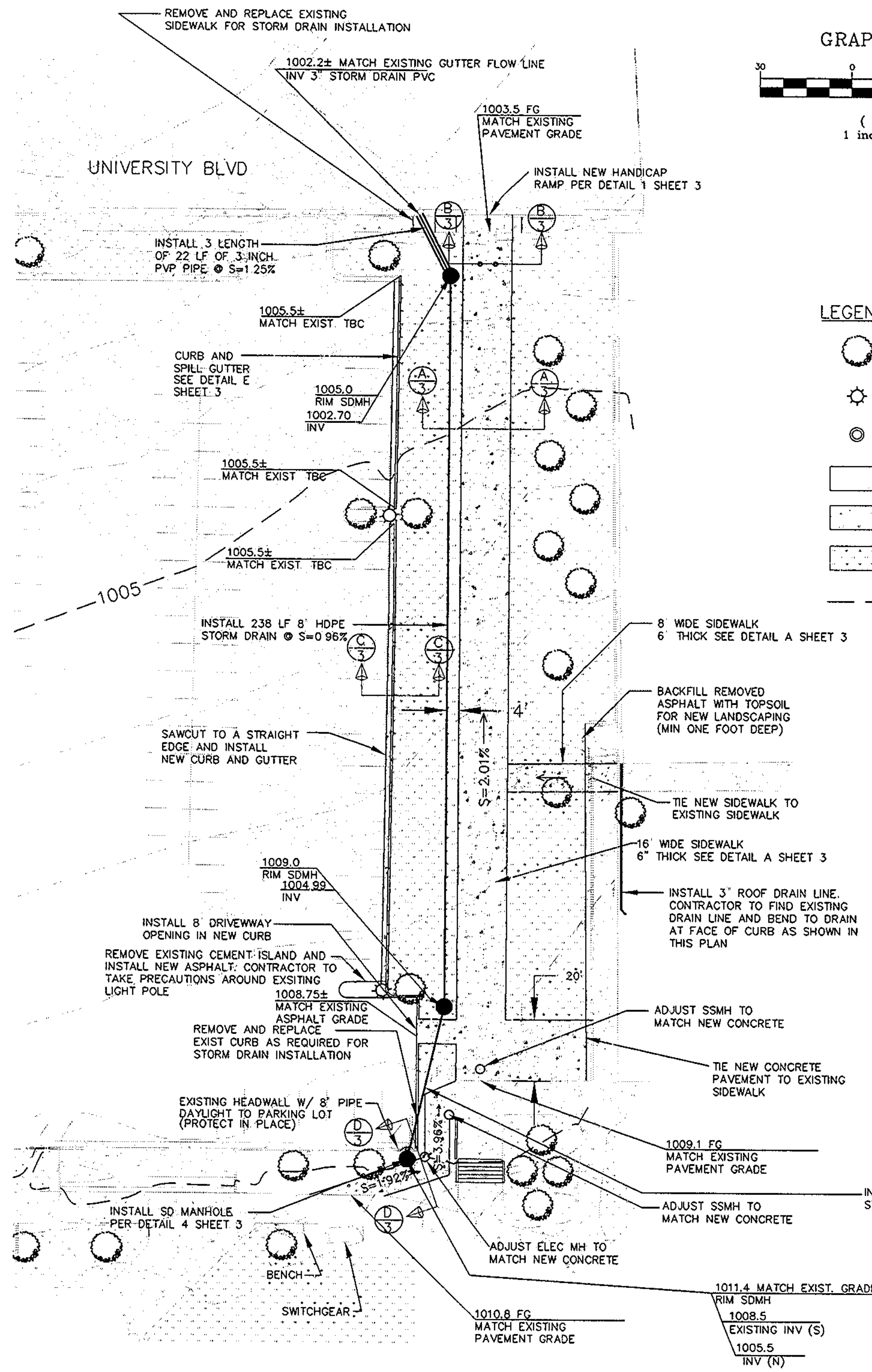
GENERAL NOTE:
1. ALL CONCRETE AND REBAR SHALL COMPLY WITH THE SUU DESIGN STANDARDS



GRAPHIC SCALE

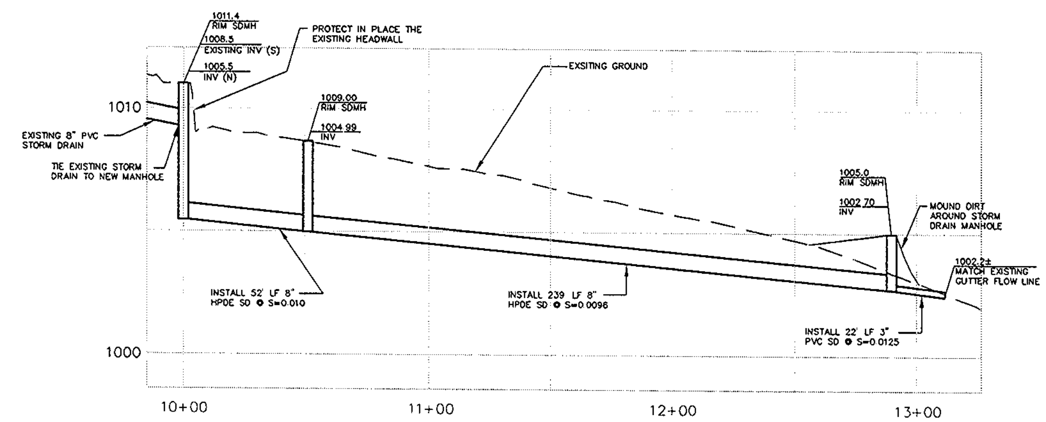
30 0 15 30 60

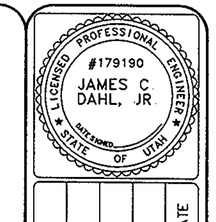
(IN FEET)
1 inch = 30 ft.

N

LEGEND

◯	EXISTING TREE
☼	EXSITING STREET LIGHT
◎	EXISTING BOLLARD
▭	EXISTING ASPHALT
▭	EXISTING CONRETE
▭	EXISTING LAWN
— —	EXISTING CONTOURS





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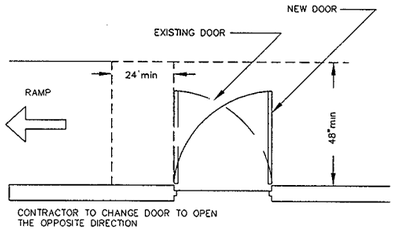
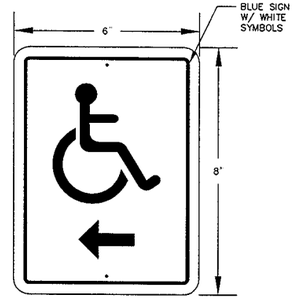
SUU STUDENT CENTER
SIDEWALK PLAN
CEDAR CITY, IRON COUNTY, UTAH

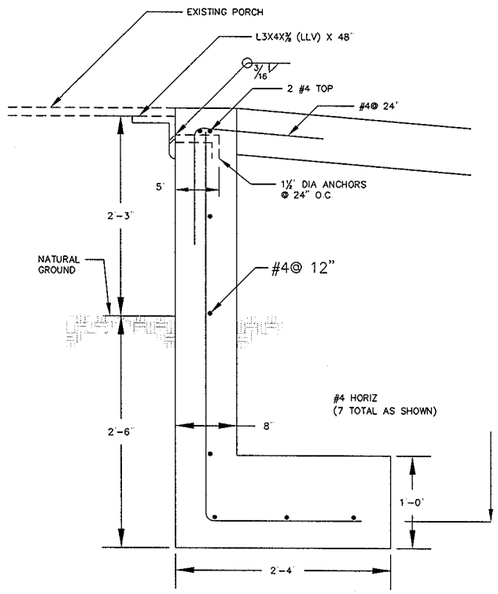
SHEET
3



1 DOOR OPENING
N.T.S



2 HANDICAP SIGN
N.T.S



3 RETAINING WALL DETAIL
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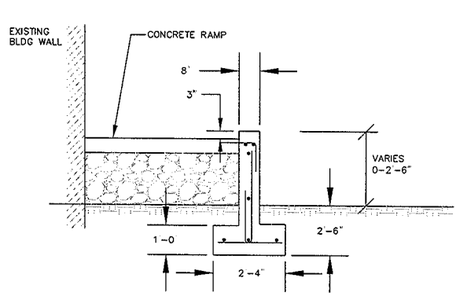

4 RETAINING WALL
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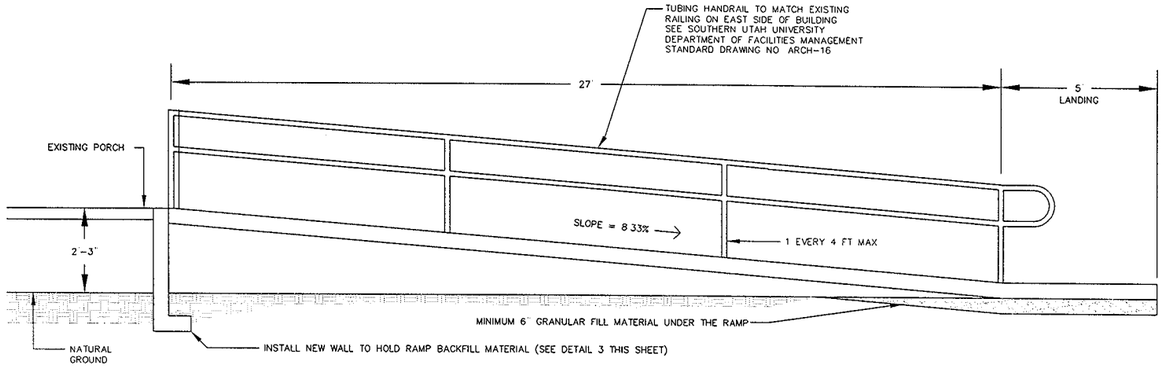
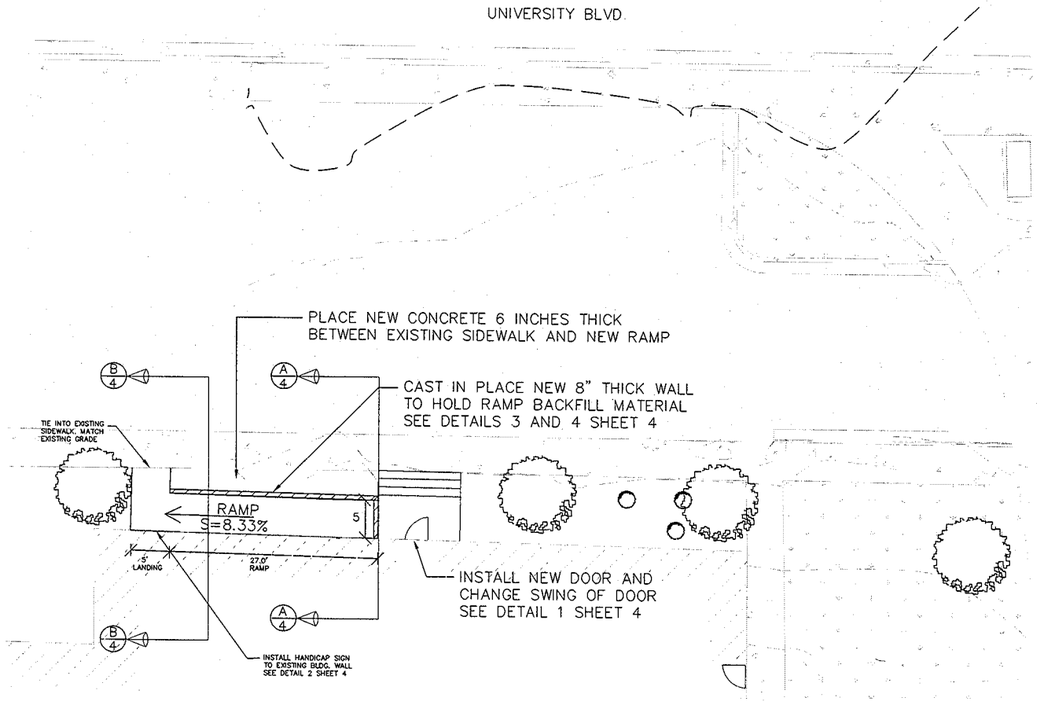
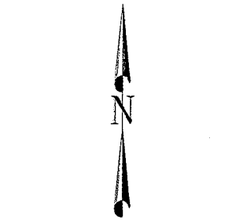


5 HANDICAP RAMP RAILING
N.T.S.

GENERAL NOTE:
1. ALL CONCRETE AND REBAR SHALL COMPLY WITH THE SUU DESIGN STANDARDS





GRAPHIC SCALE

10 0 5 10 20

(IN FEET)
1 inch = 10 ft.

LEGEND

- EXISTING TREE
- EXSITING STREET LIGHT
- EXISTING BOLLARD
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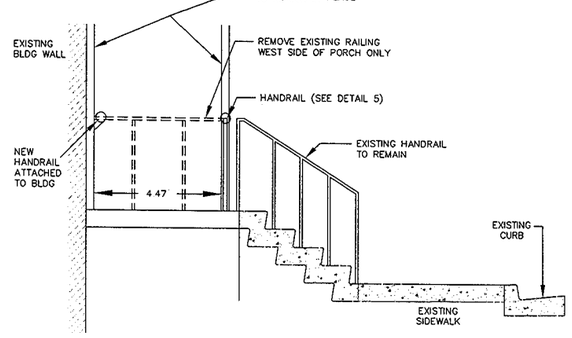
- EXISTING CONTOURS



A SECTION A
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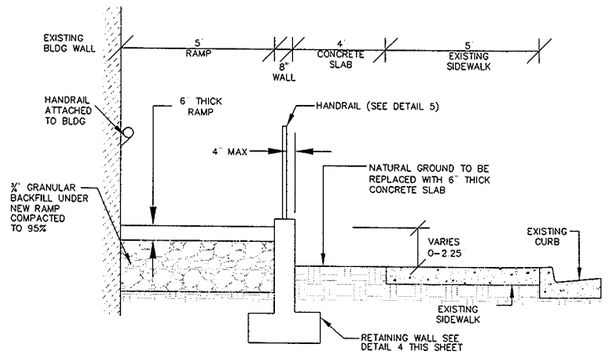

B SECTION B
N.T.S

LICENSED PROFESSIONAL ENGINEER #179190 JAMES C. DAHL, JR. STATE OF UTAH

REV.	DESCRIPTION	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE

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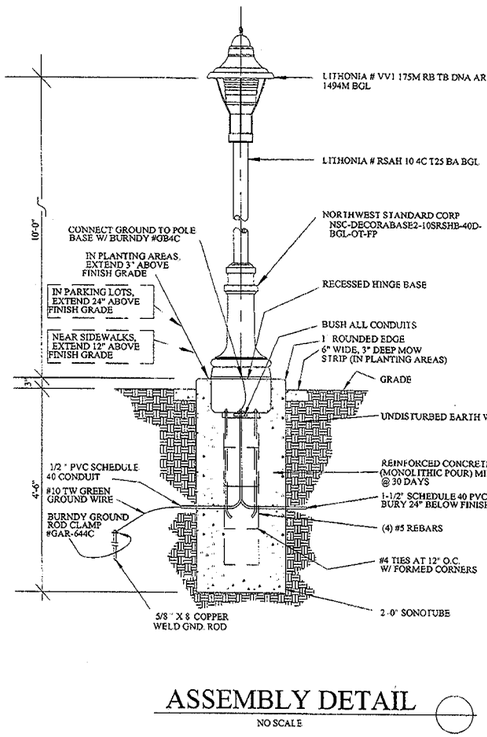
SOUTHERN UTAH UNIVERSITY

SUU STUDENT CENTER
FACILITIES BUILDING ADA RAMP PLAN
CEDAR CITY, IRON COUNTY, UTAH

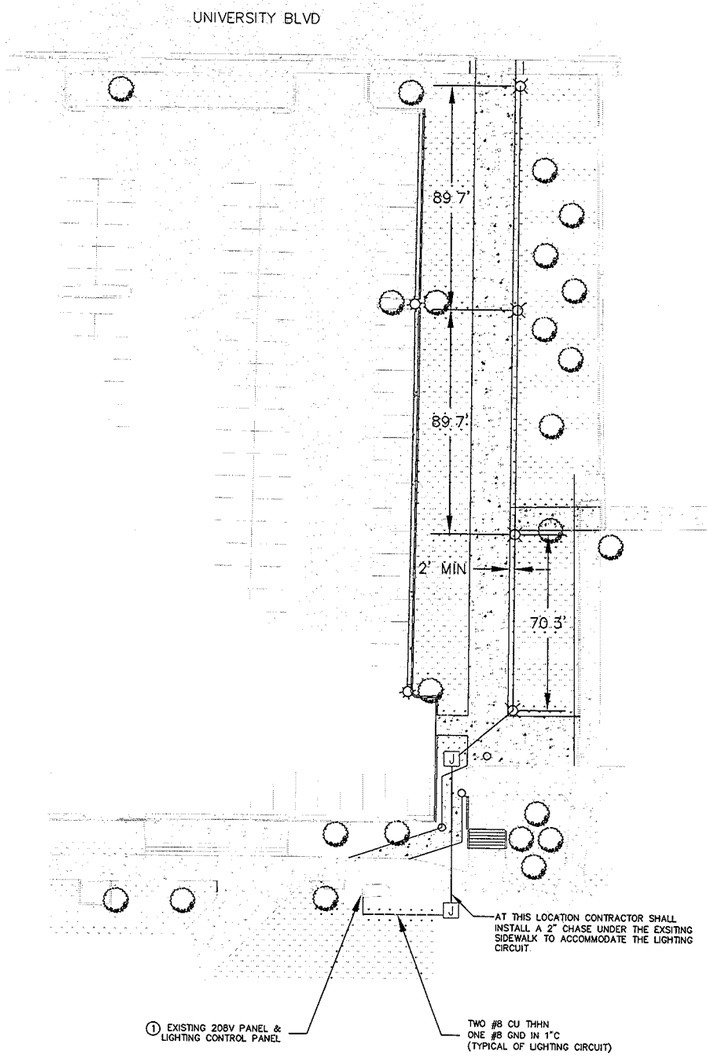
SHEET 4

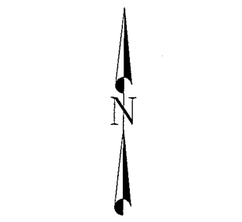


ASSEMBLY DETAIL

NO SCALE

DRAWING: LT-5 ASSEMBLY DETAIL (WITH 10'-0" HIGH POLE)		
DEPARTMENT OF FACILITIES MANAGEMENT	SOUTHERN UTAH UNIVERSITY CEDAR CITY, UT	DRAWING NO: ELEC-44 DATE: 05/2003





[J] CARSON MODEL P1017-12 ELECTRICAL JUNCTION BOX

NEW POLE MOUNTED LIGHT
175 WATT MH, 208V (SEE DETAIL THIS SHEET)

EXISTING POLE MOUNTED LIGHT
175 WATT MH, 208V

GENERAL NOTES

1.	ALL ELECTRICAL INSTALLATION SHALL COMPLY WITH THE SUU DESIGN STANDARDS.
2	CONDUIT FOR STREET LIGHTING SYSTEM SHALL BE INSTALLED WITH A MINIMUM OF 24" COVER.

FLAG NOTES

(1)	CONTACTOR SHALL LOCATE THE EXISTING 208/120V PANEL AND LIGHTING CONTROL PANEL AT THIS LOCATION. CONTRACTOR SHALL INSTALL A NEW LIGHTING CIRCUIT FROM THE EXISTING PANEL TO PROVIDE SERVICE TO 4 NEW LIGHTS AT THE LOCATIONS INDICATED. CONTACTOR SHALL DETERMINE IF SPACE EXISTS IN THE EXISTING LIGHTING CONTROL PANEL, IF SO CONTRACTOR SHALL INSTALL THE NEW CIRCUIT THROUGH A CONTACTOR IN THE EXISTING CONTROL PANEL. IF SPACE DOES NOT EXIST IN THE EXISTING CONTROL PANEL, CONTRACTOR SHALL PROVIDE AND INSTALL A NEW LIGHTING CONTACTOR WITH PHOTO-CELL CONTROL.

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ELECTRICAL PLAN
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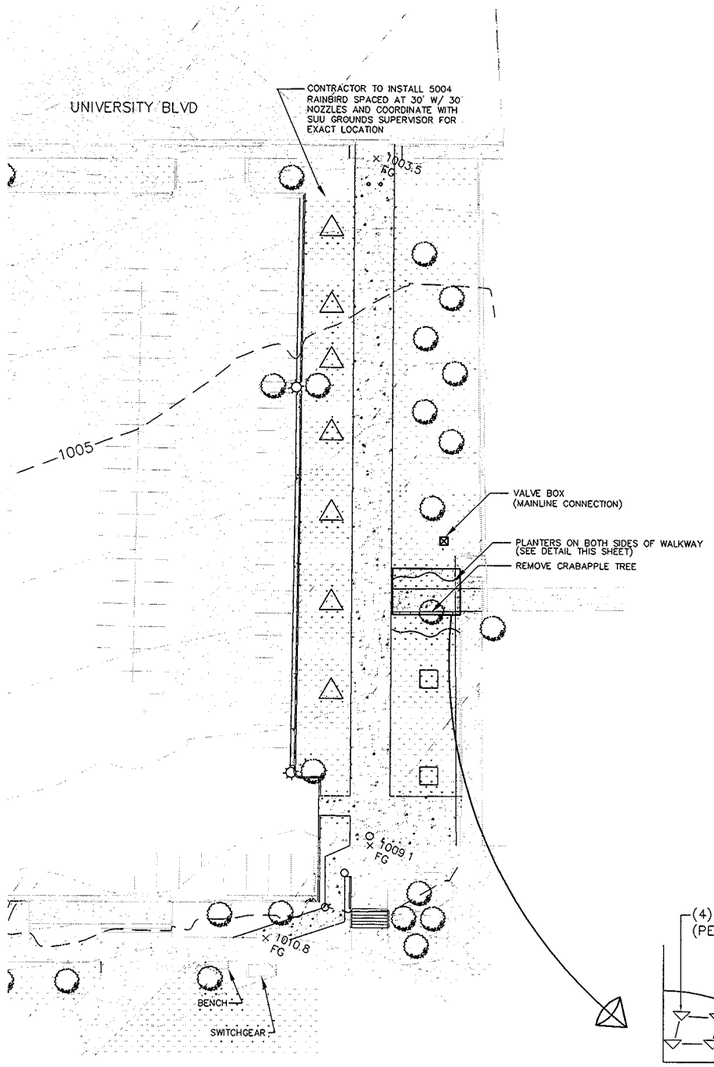
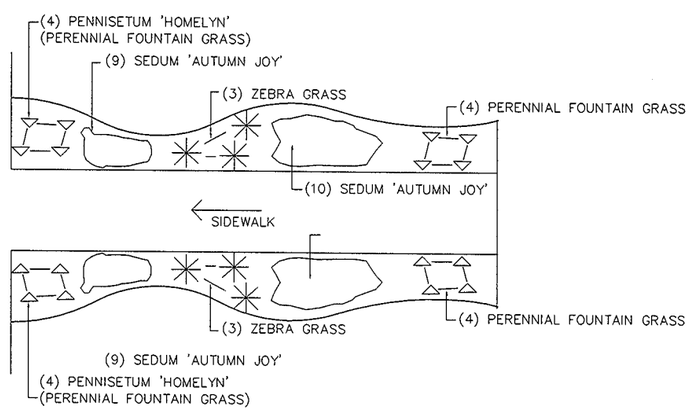
SHEET
5



PLANTING LEGEND

- △ NORWEGIAN SUNSET MAPLES (7)
- □ ZELKOVA VILLAGE GREEN (2)
- ⊠ VALVE BOX



A SIDEWALK PLANTING DETAIL
N.T.S.

N

GRAPHIC SCALE

30 0 15 30 60

(IN FEEI)
1 inch = 30 ft

LEGEND

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CEDAR CITY, IRON COUNTY, UTAH

SHEET
6